

Location ID	Altitude	Date	Sampling Coordinates				Penetration (Bar)	Recovery (Feet)	BCT	WHM Excavation Boundary (Feet)	Design Substrate (Feet MLW)	Sample Start (ft)	Sample End (ft)	Sample Interval		Elevation Start (ft MLW)	Elevation End (ft MLW)	Sample ID	Major Soil Mineralogy	Sample Type				The 2 Trading Railroads	Response to 2 Trading Railroads	
			Geotag	Lat/Long	Longitude	Latitude								Bottom Surface (feet MLW)	Interval (feet MLW)					Full Core?	Batch	Element	Analysis			
SC01	5	3/26/2019	1267795	212834	122°20'34.8"W	43°34'34.2"N	2.0	2.0	100	N	N/A	0	1	0 to 1	-1.7 to -2.7	-3.7	-2.7	T25-SC01B-0.1	Silt with sand, red with Mn, grading to gravel	---	---	---	---	No further testing because neither the core reached the Z-layer. Nearby historical surface sediment and core data can be used for excavation material characterization.	Not applicable	
												1	2	1 to 2	-11.5 to -12.5	-12.5	-12.5	T25-SC01B-1.1	Silty sand with shell hash	---	---	---	---			
												0	0.5	0 to 0.5	-2.7 to -3.7	-2.7	-3.7	T25-SC01B-0.5	Shell hash and gravel	---	---	---	---			
SC02	2	3/26/2019	1267668	212813	122°20'36.8"W	43°34'34.2"N	7.0	7.0	95	Y	7.3	0	1	0 to 1	-2.7 to -3.7	-3.7	-3.7	T25-SC02-0.1	Shell hash, sand, and silt	---	---	---	---	The Excavation Suite SM was analyzed in a 0 - 4.8 composite sample to characterize material that will be excavated for waste disposal (see BWM worksheet for results). Testing of smaller intervals was not conducted because it will be removed during construction. The full suite of analyses were conducted on the Z-layer (4.8 - 5.0 feet). No further testing because the Z-layer was tested and only one compound was slightly over the SMS (SC1) (naphthalene at 18.4 mg/kg TC). as agreed to with BPA during the June 11, 2019 meeting.	Not applicable	
												1	2	1 to 2	-3.7 to -4.7	-4.7	-4.7	T25-SC02-1.1	Shell hash, sand, and silt	---	---	---	---			
												2	3	2 to 3	-4.7 to -5.7	-5.7	-5.7	T25-SC02-2.1	Silty sand	---	---	---	---			
												3	4.5	3 to 4.5	-5.7 to -7.3	-5.7	-7.3	T25-SC02-3-0.5	Silty sand to poorly graded sand	---	---	---	---			
												4.5	5.5	4.5 to 5.5	-7.3 to -8.3	-7.3	-8.3	T25-SC02-4.5-5.5	Poorly graded sand	X	---	---	---			
												5.5	7	5.5 to 7	-8.3 to -9.7	-8.3	-9.7	T25-SC02-5.5-7	Poorly graded sand	---	---	---	---			
												0	1.7	0 to 1.7	-0.8 to -0.1	-0.6	-0.1	T25-SC02-0.5-1.7	Multiple intervals, reference lining	---	Y ¹	---	---			
												0.7	2.7	0.7 to 2.7	-1.1 to -2.1	-1.1	-2.1	T25-SC02-0.7-2.7	Sand with silt	---	---	---	X			
												2.7	3.7	2.7 to 3.7	-2.1 to -3.1	-3.1	-3.1	T25-SC02-2.7-3.7	Sand with silt	---	---	---	X			
												3.7	4.7	3.7 to 4.7	-3.1 to -4.1	-4.1	-4.1	T25-SC02-3.7-4.7	Poorly graded sand	---	---	---	X			
SC03	1	3/26/2019	1267851	212756	122°20'36.8"W	43°34'33.9"N	8.0	6.8	85	Y	-5.0	0.7	3.7	0.7 to 3.7	-4.1 to -5.1	-4.1	-5.1	T25-SC03-0.7-3.7	Poorly graded sand	---	---	---	---	The Excavation Suite SM was analyzed in a 0 - 5.7 composite sample to characterize material that will be excavated for waste disposal (see BWM worksheet for results). Testing of smaller intervals was not conducted because it will be removed during construction. The core did not reach the Z-layer and the deepest sample interval was tested, which was below SMS (T25-SC03-5.7-6.2). Upper most poorly graded sand interval will be tested for full suite of SMS analyses to define vertical extent of contamination.	The next interval down will be tested for parameters that exceeded SMS screening levels (PbOC, D, 4-dimethylphenol, PAHs, PCBs, TC, TOC).	
												3.7	5.7	3.7 to 5.7	-5.1 to -6.1	-6.1	-6.1	T25-SC03-3.7-5.7	Poorly graded sand	---	---	---	---			
												5.7	6.2	5.7 to 6.2	-6.1 to -6.6	-6.1	-6.6	T25-SC03-5.7-6.2	Poorly graded sand	---	---	---	---			
												0	1	0 to 1	-1.7 to -2.7	-2.7	-2.7	T25-SC03-0-1	Silt with sand, silty sand	---	Y ¹	---	---			
												1	2	1 to 2	-2.7 to -3.7	-3.7	-3.7	T25-SC03-1-2	Silt with sand	---	---	---	---			
												2	3	2 to 3	-3.7 to -4.7	-4.7	-4.7	T25-SC03-2-3	Silty sand	---	---	---	---			
												3	4	3 to 4	-4.7 to -5.7	-5.7	-5.7	T25-SC03-3-4	Silty sand	---	---	---	---			
												4	5	4 to 5	-5.7 to -6.7	-6.7	-6.7	T25-SC03-4-5	Poorly graded sand	X	---	---	---			
												5	6	5 to 6	-6.7 to -7.7	-7.7	-7.7	T25-SC03-5-6	Poorly graded sand	---	---	---	X			
												6	6.2	6 to 6.2	-7.7 to -8.8	-7.7	-8.8	T25-SC03-6-6.2	Silt with decomposed organics	---	---	---	X			
SC04	1	3/26/2019	1267598	212503	122°20'37.6"W	43°34'32.1"N	7.0	7.2	91	Y	-5.4	0	1	0 to 1	-1.7 to -2.7	-2.7	-2.7	T25-SC04-0-1	Silt with sand, silty sand	---	---	---	---	The Excavation Suite SM was analyzed in a 0 - 4.8 composite sample to characterize material that will be excavated for waste disposal (see BWM worksheet for results). Testing of smaller intervals was not conducted because it will be removed during construction. The full suite of analyses were conducted on the Z-layer (4.8 - 5.0 feet). The Z-layer was tested and had SMS exceedances. The next interval down will be tested for the parameters that exceeded SMS screening levels (mercury, PbOC, D, 4,6-dichlorobenzene, PCBs, BPA, TC, TOC).	The next interval down will be tested for parameters that exceeded SMS screening levels (PAHs, PCBs, BPA, TC, TOC).	
												1	2	1 to 2	-2.7 to -3.7	-3.7	-3.7	T25-SC04-1-2	Silty sand	---	---	---	---			
												2	3	2 to 3	-3.7 to -4.7	-4.7	-4.7	T25-SC04-2-3	Silty sand	---	---	---	---			
SC05	3	3/26/2019	1267413	212412	122°20'40.1"W	43°34'32.2"N	2.0	2.0	100	Y	-10.0	0	1	0 to 1	-13 to -14	-13	-14	T25-SC05-0-1	Silty sand	X	---	---	X	The elevation of this core was deeper than the design subgrade; however, for M characterization purposes, the next interval down will be tested for the parameters that exceeded SMS screening levels (PCBs, TC, TOC).	No more sample due to difficulty coring at this location. Refusal was hit at 2 feet due to hard surface (rock/gravel).	
												1	2	1 to 2	-14 to -15	-14	-15	T25-SC05-1-2	Silty sand and sand	---	---	---	---			
												0	1	0 to 1	-6 to -7	-6	-7	T25-SC05-0-1 (RD)	Silty sand	X	---	---	---			
SC06	1	3/26/2019	1267526	212519	122°20'38.6"W	43°34'31.3"N	4.0	3.4	85	Y	-7.7	0	1	0 to 1	-7 to -7.5	-7	-7.5	T25-SC06-1-0.5	Poorly graded sand	---	---	---	---	This core was just inside the excavation boundary. The sample interval that contains the Z-layer (7.7 feet MLW) will be tested for the parameters that exceeded SMS screening levels in the 0-1 interval (PbOC, BPA, chrysene, PCBs, BPA, TC, TOC).	The next interval down will be tested for parameters that exceeded SMS screening levels (PbOC, PAHs, PCBs, BPA, TC, TOC).	
												1.5	2.5	1.5 to 2.5	-7.5 to -8.5	-7.5	-8.5	T25-SC06-1.5-2.5	Organic lined earth	---	---	---	---			
												2.5	3.3	2.5 to 3.3	-8.5 to -9.3	-8.5	-9.3	T25-SC06-2.5-3.3	Organic lined forest	---	---	---	X			

Cell: R13
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Comment:
not doing design elevation at deepest interval
Cell: Q4
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Comment:
This interval isn't design /upgrade
Reply:
I think we should do the next interval.
Cell: Q3
Comment: [Threaded comment]
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Comment:
shallowest sample is below subgrade? speaks to poor bathy or changes since last survey

Tier 2

Elevation Start (ft MLLW)	Elevation End (ft MLLW)	Sample ID	Sample Archive Testing Parameters
-3.1	-4.1	T25-SC03-3.7-4.7	Metals, mercury, SMS SVOCs, PCBs, DFs, TS, TOC.
-6.7	-7.7	T25-SC04-5-6	Mercury, SMS SVOCs, PCBs, DFs, TS, TOC.
-14	-15	T25-SC05-1-2	PCBs, TS, TOC.
-7.5	-8.5	T25-SC06-1.5-2.5	SMS SVOCs, PCBs, DFs, TS, TOC.
-26	-27	T25-SC07-5-6	PCBs, DFs, TS, TOC.
-29.5	-30.5	T25-SC08-7-8	SMS SVOCs, PCBs, DFs, TS, TOC.
-15.8	-16.8	T25-SC09B-2-3	Mercury, SMS SVOCs, DFs, TS, TOC.
		T25-SB03-14.2-16.2	PCBs, TS

Tier 3

Sample ID	Sample Archive Testing Parameters
T25-SC03-4.7-5.7	SMS SVOCs, PCBs,TS, TOC.
T25-SC04-6-6.7	PAHs, PCBs, DFs, TS, TOC.
T25-SC06-2.5-3.3	SMS SVOCs, PCBs, DFs, TS, TOC.
T25-SC07-5-6	PAHs
T25-SC07-6-7	Mercury, SMS SVOCs, PCBs, DFs, TS, TOC.
T25-SC08-8-9	SMS SVOCs, PCBs, DFs, TS, TOC.
T25-SC09B-3-4	Mercury, PAHs, PCBs, TS, TOC.

*Use tests allowed in the Master Service Agreement

**Invoice line items have to match the MSA